

10/062,131

WEST Search History

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DATE: Thursday, June 17, 2004

Hide?	Set Name	Query	Hit Count
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L13	5474765.pn. or 5762918.pn.	3
<input type="checkbox"/>	L12	L10 same l3	1
<input type="checkbox"/>	L11	L10 and l3	95
<input type="checkbox"/>	L10	l4 near5 l6	952
<input type="checkbox"/>	L8	l4 and l6	2725
<input type="checkbox"/>	L7	L6 and l5	291
<input type="checkbox"/>	L6	hydrazide	26088
<input type="checkbox"/>	L5	L4 and l3	600
<input type="checkbox"/>	L4	hydrazone	17998
<input type="checkbox"/>	L3	L2 near4 l1	18953
<input type="checkbox"/>	L2	link? or bond	1195997
<input type="checkbox"/>	L1	disrupt\$ or cleav\$	276725

END OF SEARCH HISTORY

Please return all attachments with search results. Thanks.

46

*Paula Schulwitz please

SEARCH REQUEST FORM

Scientific and Technical Information Center

Access DB# 124899

Requester's Full Name: MOLLY CEPERLEY Examiner #: 59757 Date: 06/15/04
Art Unit: 1641 Phone Number 301-2-0813 Serial Number: 10/062131
Mail Box and Bldg/Room Location: Rem 3A51 Results Format Preferred (circle): PAPER DISK E-MAIL
↳ Rem 3C70

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: 02/01/2002

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search the attached claims. See also the attached figure and Remarks.

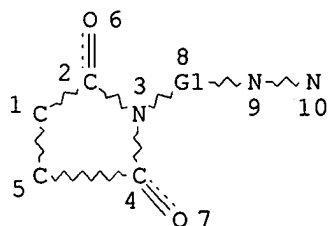
The broad concept is to attach a protein (e.g. antibody to thyroid stimulating hormone (TSH)) to a surface (e.g. periodate activated agarose) through a hydrazone bond ($C=N-NH_2$) then to further attach another protein (e.g. alkaline phosphatase) which is maleimido derivatized. The hydrazone bond between the solid support is then disrupted using hydroxylamine leaving a hydrazide (NH_2-NH_2) group on the first protein. See the figure and Remarks (page 4).

Terms: disruptable bond, hydrazide, hydrazone, N-[E-maleimidocaproic acid], hydrazide (EMCH), periodate, agarose, alkaline phosphatase, antibody to TSH, R-phycoerythrin, B-phycoerythrin, allophycocyanin (APC), cleavable bond, hydroxylamine

STAFF USE ONLY	Type of Search	Vendors and cost where applicable
Searcher: _____	NA Sequence (#) _____	STN _____
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic _____	Dr.Link _____
Date Completed: _____	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: _____	Other _____	Other (specify) _____

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L1 13644 SEA FILE=HCAPLUS ABB=ON PLU=ON HYDRAZONES+OLD,NT/CT
 L2 58139 SEA FILE=HCAPLUS ABB=ON PLU=ON HYDRAZIDES+OLD,NT/CT
 L3 962 SEA FILE=HCAPLUS ABB=ON PLU=ON L1 AND L2
 L5 STR



*Considered.
07/30/04
MEC*

REP G1=(0-20) A
 NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L7 1725 SEA FILE=REGISTRY SSS FUL L5
 L8 2 SEA FILE=REGISTRY ABB=ON PLU=ON TSH/CN
 L9 613 SEA FILE=HCAPLUS ABB=ON PLU=ON L8 (L)ANTIBOD?
 L10 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L7 AND L9
 L11 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L9 AND L1
 L12 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L9 AND L2
 L13 11 SEA FILE=HCAPLUS ABB=ON PLU=ON L7 AND L1
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 L17 1342 SEA FILE=REGISTRY ABB=ON PLU=ON "AGAROSE"
 L18 515 SEA FILE=REGISTRY ABB=ON PLU=ON "PERIODATE"
 L19 44 SEA FILE=HCAPLUS ABB=ON PLU=ON L17 AND L18
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 L25 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L24 AND MALEIM?
 L26 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L23 AND L9
 L27 36 SEA FILE=HCAPLUS ABB=ON PLU=ON L23 AND L3
 L28 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L27 AND L19
 L29 8 SEA FILE=HCAPLUS ABB=ON PLU=ON L10 OR L11 OR L12 OR L15 OR
 L20 OR L21 OR L22 OR L25 OR L26 OR L28

=> d l29 ibib abs hitind hitstr 1-8

L29 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2004:80237 HCAPLUS
 DOCUMENT NUMBER: 140:124853
 TITLE: Multiple hybrid immunoassay

INVENTOR(S): Emerson Campbell, John Lewis; Frank, Pamela Anne;
Hawkes, Meghan Elizabeth; Lobin, Shannon Reishma;
Miller, Cary James; Yang, Zhen
PATENT ASSIGNEE(S): Can.
SOURCE: U.S. Pat. Appl. Publ., 26 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004018577	A1	20040129	US 2002-208560	20020729
WO 2004011947	A1	20040205	WO 2003-US23483	20030729

W: JP

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
IT, LU, MC, NL, PT, RO, SE, SI, SK, TR

PRIORITY APPLN. INFO.: US 2002-208560 A 20020729

AB The invention relates to compns. and methods for the immunoassay of an analyte of interest. The analyte is detected in an immunoassay using three or more antibodies, wherein each antibody specifically binds to a different epitope on the analyte. When the analyte of interest is a clin. marker for an acute disease, the detection of the analyte by immunoassay is a diagnosis of the occurrence of the disease. Microparticle capture reagents were made comprising a first capture antibody to cardiac troponin I (cTnI) (CB1), a second capture antibody (CB2) to cTnI, and CB12 microparticles comprising both CB1 and CB2. Alkaline phosphatase-labeled Fab conjugates were also made comprising EC1, EC2 or the EC12 hybrid containing both EC1 and EC2. The hybrid capture reagents and hybrid signal reagents gave superior assay performance in the detection of cTnI in whole blood samples.

IC ICM G01N033-53
ICS G01N033-537; G01N033-543

NCL 435007930

CC 9-10 (Biochemical Methods)
Section cross-reference(s): 14, 15

IT 92-87-5D, Benzidine, derivs. 111-30-8, Glutaraldehyde 1071-93-8
, Adipic acid dihydrazide 2425-79-8 4856-87-5 64987-85-5
96602-46-9, N-Hydroxysuccinimidyl 4-azidosalicylate 125559-00-4

RL: RCT (Reactant); RACT (Reactant or reagent)

(as agent for crosslinking antibody to microparticle or label; multiple hybrid immunoassay using three or more different antibodies to different epitopes on analyte)

IT 9002-68-0, FSH 9002-71-5, Thyroid-stimulating hormone
114471-18-0, Brain natriuretic peptide 121128-24-3, Pro-brain
natriuretic peptide

RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(multiple hybrid immunoassay using three or more different

antibodies to different epitopes on analyte)

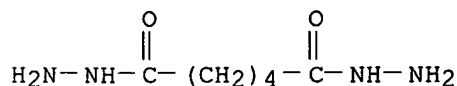
IT 1071-93-8, Adipic acid dihydrazide

RL: RCT (Reactant); RACT (Reactant or reagent)

(as agent for crosslinking antibody to microparticle or label; multiple hybrid immunoassay using three or more different antibodies to different epitopes on analyte)

RN 1071-93-8 HCAPLUS

CN Hexanedioic acid, dihydrazide (9CI) (CA INDEX NAME)



IT 9002-71-5, Thyroid-stimulating hormone
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (multiple hybrid immunoassay using three or more different
antibodies to different epitopes on analyte)
 RN 9002-71-5 HCAPLUS
 CN Thyrotropin (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L29 ANSWER ② OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2003:622578 HCAPLUS
 DOCUMENT NUMBER: 139:169330
 TITLE: Silver-containing antimicrobial compositions
 INVENTOR(S): Gibbins, Bruce L.; Hopman, Lance D.
 PATENT ASSIGNEE(S): Acrymed, USA
 SOURCE: U.S., 29 pp., Cont.-in-part of U.S. Ser. No. 191,223.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6605751	B1	20030812	US 2000-675892	20000929
US 6355858	B1	20020312	US 1998-191223	19981113
US 2004010215	A1	20040115	US 2003-441275	20030519
PRIORITY APPLN. INFO.:			US 1997-971074	A2 19971114
			US 1998-191223	A2 19981113
			US 1999-157000P	P 19991001
			US 2000-212455P	P 20000619
			US 2000-675892	A1 20000929

AB The present invention comprises methods and compns. for making a silver-containing antimicrobial hydrophilic material. More particularly, the present invention comprises methods and compns. for stabilized silver antimicrobial devices comprising a matrix comprising a polymer network and a non-gellable polysaccharide, and an active agent. The matrix may be formed into any desired shape for its desired uses. The incorporation of the antimicrobial agent, penicillin G, into the matrix was evaluated by dissolving 1+106 units of penicillin G powder into 50 mL of water. Acrylamide, methylenebisacrylamide, glycerol, and a guar gum/isopropyl alc. mixture were added 900 mL water and mixed for 2 h. The penicillin solution was then added along with TEMED dissolved in 25 mL water. After thorough mixing, ammonium persulfate in 25 mL water was added and mixed thoroughly. The mixture was then poured into sheet molds and allowed to gel. The sheets of semi-solid gel material were stripped from the mold and dehydrated to approx. 7% their original water content for storage. Disks of 0.7 cm diameter were cut from the sheets. These results demonstrate

the release of active penicillin G after its incorporation into the matrix.

IC ICM A61F013-00

NCL 602041000; 602043000; 602048000

CC 63-6 (Pharmaceuticals)

IT **54-85-3**, Isoniazid 56-81-5, Glycerol, biological studies
 57-55-6, Propylene glycol, biological studies 57-88-5, Cholesterol,
 biological studies 57-92-1, Streptomycin, biological studies 58-14-0,
 Pyrimethamine 60-33-3, Linoleic acid, biological studies 60-54-8,
 Tetracycline 61-33-6, Penicillin G, biological studies 64-17-5,
 Ethanol, biological studies 67-63-0, Isopropyl alcohol, biological
 studies 68-35-9, Sulfadiazine 69-53-4, Ampicillin 70-00-8,
 Trifluridine 71-36-3, Butanol, biological studies 74-55-5, Ethambutol
 80-08-0, Dapsone 97-59-6, Allantoin 98-96-4, Pyrazinamide 100-33-4,
 Pentamidine 114-07-8, Erythromycin 154-21-2, Lincomycin 544-35-4,
 Linoleic acid ethyl ester 564-25-0, Doxycycline 1256-86-6, Cholesteryl
 sulfate 1397-89-3, Amphotericin B 1398-61-4, Chitin 1403-66-3,
 Gentamicin 1406-05-9, Penicillin 2030-63-9, Clofazimine 4428-95-9,
 Foscarnet 7440-22-4, Silver, biological studies 7440-22-4D, Silver,
 salts 7447-39-4, Copper chloride, biological studies 7542-37-2,
 Paromomycin 7705-08-0, Ferric chloride, biological studies 7783-90-6,
 Silver chloride, biological studies 7783-96-2, Silver iodide
 7785-23-1, Silver bromide 9000-07-1, Carrageenin 9000-30-0, Guar gum
 9004-32-4, Carboxymethyl cellulose sodium salt 9004-34-6, Cellulose,
 biological studies 9004-54-0, Dextran, biological studies 9004-61-9,
 Hyaluronic acid 9005-49-6, Heparin, biological studies 9007-28-7,
 Chondroitin sulfate **9012-36-6**, Agarose 9015-71-8,
 Corticotropin releasing factor 9050-30-0, Heparan sulfate 9061-61-4,
 Nerve growth factor 13292-46-1, Rifampin 13463-41-7, Zinc pyrithione
15606-77-6, Silver periodate 18323-44-9, Clindamycin
 22916-47-8, Miconazole 24967-94-0, Dermatan sulfate 25034-58-6,
 Acrylamide-methylenebisacrylamide copolymer 37300-21-3, Pentosan
 polysulfate 59277-89-3, Acyclovir 62229-50-9, Epidermal growth factor
 65277-42-1, Ketoconazole 67763-96-6, Insulin-like growth factor 1
 67763-97-7, Insulin-like growth factor 2 71812-41-4, Tumor angiogenesis
 factor 72559-06-9, Rifabutin 81103-11-9, Clarithromycin 82410-32-0,
 Ganciclovir 82419-36-1, Ofloxacin 83869-56-1, Granulocyte-macrophage
 colony stimulating factor 83905-01-5, Azithromycin 84625-61-6,
 Itraconazole 85721-33-1, Ciprofloxacin 86386-73-4, Fluconazole
 95233-18-4, Atovaquone 101831-37-2, Diclazuril 106096-92-8, Acidic
 fibroblast growth factor 106096-93-9, Basic fibroblast growth factor
 110871-86-8, Sparfloxacin 127464-60-2, Vascular endothelial growth
 factor

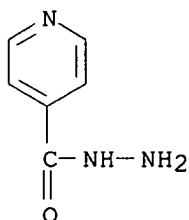
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (silver-containing antimicrobial compns.)

IT **54-85-3**, Isoniazid **9012-36-6**, Agarose **15606-77-6**
 , Silver periodate

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (silver-containing antimicrobial compns.)

RN 54-85-3 HCAPLUS

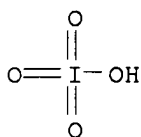
CN 4-Pyridinecarboxylic acid, hydrazide (9CI) (CA INDEX NAME)



RN 9012-36-6 HCAPLUS
 CN Agarose (8CI, 9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 15606-77-6 HCAPLUS
 CN Periodic acid (HIO4), silver(1+) salt (8CI, 9CI) (CA INDEX NAME)



● Ag (I)

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER (3) OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2003:610108 HCAPLUS
 DOCUMENT NUMBER: 139:146205
 TITLE: Macromolecular conjugates and processes for preparing the same
 INVENTOR(S): Russell, John C.
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 18 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003149246	A1	20030807	US 2002-62131	20020201
WO 2003072017	A2	20030904	WO 2002-US40285	20021216

W: CA, JP

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR

PRIORITY APPLN. INFO.: US 2002-62131 A 20020201

AB The invention pertains to making a suspended or soluble macromol. conjugate comprising binding a first macromol. to a solid via a stable, **disruptable** bond, stably linking addnl. macromols., and releasing

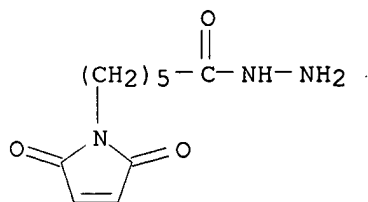
the macromol. conjugate, as well as macromol. conjugates prepared by the method. Sepharose CL2B was oxidized with NaIO₄, activated with N-[ε- **maleimidocaproic acid**]hydrazide, and reacted with R-phycoerythrin activated with N-succinimidyl S-acetylthioacetate (SATA). Unreacted **maleimide** groups were deactivated by treatment with the sodium salt of mercaptoethanesulfonic acid. From one to five layers of alkaline phosphatase were added to the conjugate by alternately reacting SATA-activated enzyme or γ- **maleimidobutyric acid** N-hydroxysuccinimide ester (GMBS)-activated enzyme. SATA-activated or GMBS-activated anti-TSH antibody was reacted last with the conjugates. Unreacted groups were capped and the conjugates were released from the resin using hydroxylamine. The conjugates were used in TSH ELISA assays.

- IC ICM G01N033-542
ICS G01N033-53; C07K016-46
NCL 530391100; 435007900
CC 9-14 (Biochemical Methods)
- IT **Phycoerythrins**
RL: SPN (Synthetic preparation); PREP (Preparation)
(B-phycoerythrins, conjugates; macromol. conjugates and processes for preparing them using solid surfaces)
- IT **Phycoerythrins**
RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(R-phycoerythrins, conjugates; macromol. conjugates and processes for preparing them using solid surfaces)
- IT **Chromophores**
Fluorescent substances
(conjugate containing; macromol. conjugates and processes for preparing them using solid surfaces)
- IT **Allophycocyanins**
Macromolecular compounds
Proteins
RL: SPN (Synthetic preparation); PREP (Preparation)
(conjugates; macromol. conjugates and processes for preparing them using solid surfaces)
- IT **Hydrazides**
RL: FMU (Formation, unclassified); RCT (Reactant); FORM (Formation, nonpreparative); RACT (Reactant or reagent)
(formation on macromol. after release from solid surface, conversion of; macromol. conjugates and processes for preparing them using solid surfaces)
- IT **Hydrazones**
RL: PRP (Properties)
(sulfhydryl group-containing proteins reaction with **maleimide** groups bound to solid surface via linkages of; macromol. conjugates and processes for preparing them using solid surfaces)
- IT **9002-71-5, Thyroid-stimulating hormone**
RL: ANT (Analyte); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study)
(R-phycoerythrin and alkaline phosphatase conjugates with **antibodies** to; macromol. conjugates and processes for preparing them using solid surfaces)
- IT 6539-14-6, 2-Iminoethiolane 55750-61-3 64987-85-5 76931-93-6,
N-Succinimidyl S-Acetylthioacetate **81186-33-6** 112241-19-7
115616-51-8 158018-81-6 **359436-60-5** 570368-46-6
570368-47-7 **570368-50-2**
RL: RCT (Reactant); RACT (Reactant or reagent)

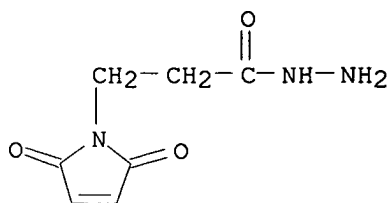
- (as bifunctional linker for linking macromols.; macromol. conjugates and processes for preparing them using solid surfaces)
- IT 80307-12-6, γ - Maleimidobutyric acid N-hydroxysuccinimide ester
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (as bifunctional linker; macromol. conjugates and processes for preparing them using solid surfaces)
- IT 9003-05-8, Polyacrylamide 9003-53-6, Polystyrene 9012-36-6, Agarose
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (as solid surface; macromol. conjugates and processes for preparing them using solid surfaces)
- IT 19767-45-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (for deactivating residual unreacted maleimide groups; macromol. conjugates and processes for preparing them using solid surfaces)
- IT 7790-28-5, Sodium periodate
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (in preparation of reactive agarose support; macromol. conjugates and processes for preparing them using solid surfaces)
- IT 9002-71-5, Thyroid-stimulating hormone
 RL: ANT (Analyte); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study)
 (R-phycoerythrin and alkaline phosphatase conjugates with antibodies to; macromol. conjugates and processes for preparing them using solid surfaces)
- RN 9002-71-5 HCAPLUS
 CN Thyrotropin (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

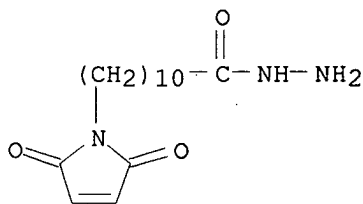
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 (as bifunctional linker for linking macromols.; macromol. conjugates and processes for preparing them using solid surfaces)
- RN 81186-33-6 HCAPLUS
 CN 1H-Pyrrole-1-hexanoic acid, 2,5-dihydro-2,5-dioxo-, hydrazide (9CI) (CA INDEX NAME)



- RN 359436-60-5 HCAPLUS
 CN 1H-Pyrrole-1-propanoic acid, 2,5-dihydro-2,5-dioxo-, hydrazide (9CI) (CA INDEX NAME)



RN 570368-50-2 HCAPLUS

CN 1H-Pyrrole-1-undecanoic acid, 2,5-dihydro-2,5-dioxo-, hydrazide,
monopotassium salt (9CI) (CA INDEX NAME)

● K

IT 9012-36-6, Agarose

RL: RCT (Reactant); RACT (Reactant or reagent)

(as solid surface; macromol. conjugates and processes for preparing them
using solid surfaces)

RN 9012-36-6 HCAPLUS

CN Agarose (8CI, 9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

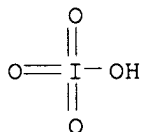
IT 7790-28-5, Sodium periodate

RL: RCT (Reactant); RACT (Reactant or reagent)

(in preparation of reactive agarose support; macromol. conjugates and
processes for preparing them using solid surfaces)

RN 7790-28-5 HCAPLUS

CN Periodic acid (HIO4), sodium salt (8CI, 9CI) (CA INDEX NAME)



● Na

L29 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

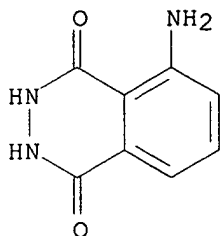
ACCESSION NUMBER: 2000:357124 HCAPLUS
 DOCUMENT NUMBER: 133:2209
 TITLE: Immunoassay method
 INVENTOR(S): Kurokawa, Hiroto; Sugiura, Masakazu
 PATENT ASSIGNEE(S): Sanyo Chemical Industries Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 2000146972	A2	20000526	JP 1998-334982	19981109
PRIORITY APPLN. INFO.:				JP 1998-334982	19981109
AB	Provided is an immunoassay with broad determination range and high reproducibility. The immunoassay comprises insol. carrier-immobilized analyte-specific binding substance (e.g. antibody) and (enzyme-)labeled analyte-specific binding substance (e.g. antibody) for reacting with analyte-containing sample, and detection of luminescence derived from the reaction. The insol. carrier is a glass product or glass oxide product, the label is an enzyme (e.g. alkaline phosphatase or peroxidase), and the luminescent substance is selected from luminol, dioxetane, lophine, acridine, tetrakis(dimethylamino)ethylene, indole, oxalate, diphenoyl peroxide, luciferin and analogs. Thus, prepared were antibodies coated on glass beads derived from lead glass and soda-lime glass and borosilicate glass, and peroxidase- and alkaline phosphatase-labeled antibodies for immunoassay of α -fetoprotein and TSH.				
IC	ICM G01N033-543 ICS G01N033-543; G01N021-76; G01N033-532				
CC	9-10 (Biochemical Methods) Section cross-reference(s): 2, 15				
IT	9002-71-5, TSH RL: ANT (Analyte); BSU (Biological study, unclassified); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (chemiluminescence enzyme immunoassay for antigen or antibody determination)				
IT	120-72-9D, Indole, analogs 144-62-7D, Ethanedioic acid, analogs, analysis 260-94-6D, Acridine, analogs 484-47-9D, Lophine, analogs 521-31-3D, Luminol, analogs 996-70-3D, Tetrakis(dimethylamino)ethylene, analogs 2591-17-5D, Luciferin, analogs 6109-04-2D, Diphenoyl peroxide, analogs 6788-84-7D, Dioxetane, analogs 9001-78-9, Alkaline phosphatase 9003-99-0, Peroxidase RL: ARU (Analytical role, unclassified); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (chemiluminescence enzyme immunoassay for antigen or antibody determination)				
IT	9002-71-5, TSH RL: ANT (Analyte); BSU (Biological study, unclassified); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (chemiluminescence enzyme immunoassay for antigen or antibody determination)				
RN	9002-71-5 HCAPLUS				
CN	Thyrotropin (9CI) (CA INDEX NAME)				
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***					
IT	521-31-3D, Luminol, analogs				

RL: ARU (Analytical role, unclassified); THU (Therapeutic use); ANST
(Analytical study); BIOL (Biological study); USES (Uses)
(chemiluminescence enzyme immunoassay for antigen or antibody determination)

RN 521-31-3 HCAPLUS

CN 1,4-Phthalazinedione, 5-amino-2,3-dihydro- (6CI, 8CI, 9CI) (CA INDEX
NAME)



L29 ANSWER (5) OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1996:488749 HCAPLUS

DOCUMENT NUMBER: 125:162763

TITLE: Phosphatase activated crosslinking, conjugating and
reducing agents; methods of using such agents; and
reagents comprising phosphatase activated crosslinking
and conjugating agents

INVENTOR(S): Bieniarz, Christopher; Husain, Mazhar; Young, Douglas
F.; Skrzypczynski, Zbigniew; Cornwell, Michael J.

PATENT ASSIGNEE(S): Abbott Laboratories, USA

SOURCE: PCT Int. Appl., 65 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9617580	A2	19960613	WO 1995-US15586	19951130
WO 9617580	A3	19961010		
W: CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5736624	A	19980407	US 1994-349167	19941202
CA 2205373	AA	19960613	CA 1995-2205373	19951130
EP 795128	A2	19970917	EP 1995-943631	19951130
EP 795128	B1	20030423		
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL				
JP 10509731	T2	19980922	JP 1995-517656	19951130
AT 238549	E	20030515	AT 1995-943631	19951130
ES 2197214	T3	20040101	ES 1995-943631	19951130
US 5789219	A	19980804	US 1996-655067	19960529
US 6057429	A	20000502	US 1996-657695	19960529
US 6160153	A	20001212	US 2000-498388	20000203

PRIORITY APPLN. INFO.:

US 1994-349167 A 19941202
WO 1995-US15586 W 19951130
US 1996-657695 A3 19960529

AB The present invention provides crosslinking, conjugating and reducing

agents which are functional with at least one phosphorothioate monoester group (-SPO₃-2). Crosslinking and conjugation methods as well as solid-phase reagents and conjugates which are useful in immunoassays are also provided. Crosslinking and conjugating agents of the invention generally comprise a compound corresponding to the formula Q-(S-PO₃-2)_n, wherein n is at least 1 and Q is a straight or branched monomer, polymer or oligomer having an average mol. weight between about 200 and about 1,000,000.

Addnl., when n is 1, Q comprises at least 1 addnl. reactive functionality. The reducing agents that are provided conform to a compound of formula (SPO₃-2)-A-C(OH)-C(OH)-Z-(SPO₃-2), wherein (A) and (Z) can be independently selected from C₁-C₅ alkyl and CONH(CH₂)_p wherein p is an integer between 1 and 5.

IC ICM A61K

CC 9-10 (Biochemical Methods)

IT **Phycoerythrins**

RL: PRP (Properties); RCT (Reactant); RACT (Reactant or reagent)
(R-, crosslinking of; phosphatase-activated crosslinking, conjugating, and reducing agents for use in immunoassays)

IT 9002-61-3, Choriogonadotropin **9002-71-5**, Thyroid stimulating hormone

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(**antibodies** to; phosphatase-activated crosslinking, conjugating, and reducing agents for use in immunoassays)

IT **9002-71-5**, Thyroid stimulating hormone

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(**antibodies** to; phosphatase-activated crosslinking, conjugating, and reducing agents for use in immunoassays)

RN 9002-71-5 HCAPLUS

CN Thyrotropin (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L29 ANSWER **(6)** OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:494710 HCAPLUS

DOCUMENT NUMBER: 122:237795

TITLE: Site-specific covalent attachment of conglutinin to solid phase materials and related methods

INVENTOR(S): Lee, Young Moo; Okarma, Thomas B.; O'Donoghue, Gerard

PATENT ASSIGNEE(S): Applied Immune Sciences, Inc., USA

SOURCE: PCT Int. Appl., 58 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

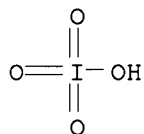
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9506254	A1	19950302	WO 1994-US9407	19940824
W:	AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, UZ, VN			
RW:	KE, MW, SD, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
AU 9476005	A1	19950321	AU 1994-76005	19940824
PRIORITY APPLN. INFO.:			US 1993-111071	19930824

WO 1994-US9407 19940824

- AB A device comprising a biocompatible support and conglutinin which is covalently attached to the support. The covalent attachment of the conglutinin to the support can be by a hydrazone reaction. The device can be used to remove immune complexes from a body fluid and can be employed in anal. and therapeutic methods. A method for producing a device in accordance with the invention is also set forth. In example, an immune complex affinity column was constructed by site-specific attachment of bovine conglutinin to agarose via hydrazone chemical. The column was tested for capturing and eluting anti-chicken ovalbumin immune complex.
- IC ICM G01N033-543
ICS G01N033-548; A61M001-36
- ICA G01N033-564
- CC 15-10 (Immunochemistry)
- IT **Hydrazones**
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(reaction; site-specific covalent attachment of conglutinin to solid phase materials for immune complexes removal from body fluid)
- IT **7790-28-5, Sodium periodate**
RL: MOA (Modifier or additive use); USES (Uses)
(aldehyde group generation; in site-specific covalent attachment of conglutinin to solid phase materials for immune complexes removal from body fluid)
- IT **9012-36-6D, Agarose, conjugates with conglutinin**
RL: DEV (Device component use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)
(site-specific covalent attachment of conglutinin to solid phase materials for immune complexes removal from body fluid)
- IT **7790-28-5, Sodium periodate**
RL: MOA (Modifier or additive use); USES (Uses)
(aldehyde group generation; in site-specific covalent attachment of conglutinin to solid phase materials for immune complexes removal from body fluid)
- RN 7790-28-5 HCAPLUS
- CN Periodic acid (HIO₄), sodium salt (8CI, 9CI) (CA INDEX NAME)



● Na

- IT **9012-36-6D, Agarose, conjugates with conglutinin**
RL: DEV (Device component use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)
(site-specific covalent attachment of conglutinin to solid phase materials for immune complexes removal from body fluid)
- RN 9012-36-6 HCAPLUS
- CN Agarose (8CI, 9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L29 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1989:73771 HCAPLUS

DOCUMENT NUMBER: 110:73771

TITLE: Production of highly specific, low crossreactive antibody by immunization with D-glutamic acid-D-lysine copolymer conjugates and use of the antibody in immunoassays

INVENTOR(S): Hamaoka, Toshiyuki; Tateishi, Kayoko

PATENT ASSIGNEE(S): Japan

SOURCE: U.S., 15 pp. Cont. of U.S. Ser. No. 433,608, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4722899	A	19880202	US 1983-505892	19830620
JP 56145222	A2	19811111	JP 1980-48447	19800411
JP 01031141	B4	19890623		
JP 01026158	A2	19890127	JP 1988-86741	19880408
JP 01058459	B4	19891212		
JP 02109978	A2	19900423	JP 1988-291477	19881118
JP 03023151	B4	19910328		
PRIORITY APPLN. INFO.:			JP 1980-48447	19800411
			US 1981-252772	19810410
			US 1981-253457	19810413
			US 1982-433608	19821012

AB An antibody having a high specificity to a 1st antigen and a low crossreactivity with ≥ 1 2nd antigen having ≥ 1 antigenic determinant structurally related to that of the 1st antigen, is produced by administering to a mammal a copolymer of D-glutamic acid and D-lysine (D-GL) coupled to the 2nd antigen to induce immunol. tolerance to the 2nd antigen and then immunizing the mammal with the 1st antigen. Clones producing antibodies to C-terminal octapeptide of cholecystokinin-pancreozymin (CCK-8-P) were prepared by immunizing mice with CCK-8-P-keyhole limpet hemocyanin 3 days after treatment with pentagastrin-D-GL conjugate, fusing the immunized spleen cells with P3-X63-Ag80-U1 tumor cells, cloning the resultant hybridomas, and selecting for production of the desired antibody. Fifteen clones were obtained which produced anti-CCK-8-P antibodies; 12 of these were not reactive with pentagastrin. When the mice were not pretreated with pentagastrin-D-GL conjugate, 18 clones were obtained but all produced antibodies reactive with both CCK-8-P and pentagastrin.

IC ICM G01N033-53

ICS G01N033-531; G01N033-534

NCL 435172200

CC 15-3 (Immunochemistry)

Section cross-reference(s): 2

IT Hemocyanins

RL: PREP (Preparation)

(conjugates, with cholecystokinin-pancreozymin octapeptide, preparation of, in production of specific antibodies with low crossreactivity)

IT 50-22-6D, Corticosterone, D-glutamic acid-D-lysine copolymer conjugates
50-23-7D, Cortisol, D-glutamic acid-D-lysine copolymer conjugates
50-27-1D, D-glutamic acid-D-lysine copolymer conjugates 50-28-2D,
Estradiol, D-glutamic acid-D-lysine copolymer conjugates 51-41-2D,
Norepinephrine, D-glutamic acid-D-lysine copolymer conjugates 51-43-4D,
Epinephrine, D-glutamic acid-D-lysine copolymer conjugates 51-61-6D,
Dopamine, D-glutamic acid-D-lysine copolymer conjugates 52-39-1D,
Aldosterone, D-glutamic acid-D-lysine copolymer conjugates 53-06-5D,
Cortisone, D-glutamic acid-D-lysine copolymer conjugates 53-16-7D,
Oestrone, D-glutamic acid-D-lysine copolymer conjugates 53-41-8D,
Androsterone, D-glutamic acid-D-lysine copolymer conjugates 53-42-9D,
Etiocholanolone, D-glutamic acid-D-lysine copolymer conjugates 53-43-0D,
Dehydroepiandrosterone, D-glutamic acid-D-lysine copolymer conjugates
57-83-0D, Pregn-4-ene-3,20-dione, D-glutamic acid-D-lysine copolymer
conjugates 58-22-0D, Testosterone, D-glutamic acid-D-lysine copolymer
conjugates 64-85-7D, D-glutamic acid-D-lysine copolymer conjugates
68-96-2D, 17 α -Hydroxyprogesterone, D-glutamic acid-D-lysine
copolymer conjugates 81-25-4D, Cholic acid, D-glutamic acid-D-lysine
copolymer conjugates 83-44-3D, D-glutamic acid-D-lysine copolymer
conjugates 145-13-1D, Pregnenolone, D-glutamic acid-D-lysine copolymer
conjugates 152-58-9D, D-glutamic acid-D-lysine copolymer conjugates
434-13-9D, Lithocholic acid, D-glutamic acid-D-lysine copolymer conjugates
521-18-6D, 5 α -Dihydrotestosterone, D-glutamic acid-D-lysine
copolymer conjugates 4199-09-1D, L-Propranolol, D-glutamic acid-D-lysine
copolymer conjugates 7313-86-2D, D-glutamic acid-D-lysine copolymer
conjugates 7313-87-3D, D-glutamic acid-D-lysine copolymer conjugates
9002-61-3D, Chorionic gonadotropin, D-glutamic acid-D-lysine copolymer
conjugates 9002-67-9D, LH, D-glutamic acid-D-lysine copolymer conjugates
9002-68-0D, Follicle-stimulating hormone, D-glutamic acid-D-lysine
copolymer conjugates 9002-71-5D, TSH, D-glutamic acid-D-lysine
copolymer conjugates 9002-76-0D, Gastrin, D-glutamic acid-D-lysine
copolymer conjugates 9004-10-8D, Insulin, D-glutamic acid-D-lysine
copolymer conjugates 9007-92-5D, Glucagon, D-glutamic acid-D-lysine
copolymer conjugates 9011-97-6D, Cholecystokinin-pancreozymin,
D-glutamic acid-D-lysine copolymer conjugates 9035-68-1D, Proinsulin,
D-glutamic acid-D-lysine copolymer conjugates 51110-01-1D, Somatostatin,
D-glutamic acid-D-lysine copolymer conjugates

RL: BIOL (Biological study)

(immunotolerance to, in production of highly specific and low-crossreactive
antibodies)

IT 9002-71-5D, TSH, D-glutamic acid-D-lysine copolymer conjugates

RL: BIOL (Biological study)

(immunotolerance to, in production of highly specific and low-crossreactive
antibodies)

RN 9002-71-5 HCAPLUS

CN Thyrotropin (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L29 ANSWER (8) OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1986:511462 HCAPLUS

DOCUMENT NUMBER: 105:111462

TITLE: Preparation of agarose hexanoic diacylhydrazine and
its coupling with nucleotides

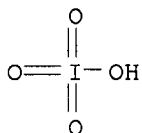
AUTHOR(S): Bai, Tianyu; Huang, Kexin

CORPORATE SOURCE: Shanghai Inst. Mater. Med., Chin. Acad. Sci.,
Shanghai, Peop. Rep. China

SOURCE: Huaxue Shiji (1986), 8(2), 110-11
CODEN: HUSHDR; ISSN: 0258-3283
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
AB Adipic acid reacted with EtOH in the presence of H₂SO₄ to form di-Et adipate, di-Et adipate then reacted with hydrazine to form adipic acid dihydrazide. Adipic acid dihydrazide was then coupled to cyanogen bromide-activated agarose. Nucleotides (e.g., ATP, NAD, or NADP) were oxidized with NaIO₄ and immobilized on agarose coupled with adipic acid dihydrazide. This method is useful for preparation of affinity agents for purification of biomols.
CC 9-10 (Biochemical Methods)
IT **9012-36-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(activation and reaction with adipic acid dihydrazide)
IT **7790-28-5**
RL: ANST (Analytical study)
(oxidation with, of nucleotides)
IT **1071-93-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with agarose)
IT **9012-36-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(activation and reaction with adipic acid dihydrazide)
RN 9012-36-6 HCAPLUS
CN Agarose (8CI, 9CI) (CA INDEX NAME)

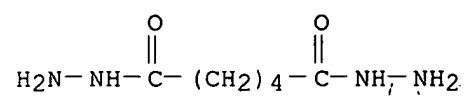
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **7790-28-5**
RL: ANST (Analytical study)
(oxidation with, of nucleotides)
RN 7790-28-5 HCAPLUS
CN Periodic acid (HIO₄), sodium salt (8CI, 9CI) (CA INDEX NAME)



● Na

IT **1071-93-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with agarose)
RN 1071-93-8 HCAPLUS
CN Hexanedioic acid, dihydrazide (9CI) (CA INDEX NAME)



=> d que

L37

3 SEA (THYROID OR TSH) (5A) ANTIBOD? AND HYDRAZON? AND HYDRAZID?
AND HYDROXYLAMIN?

=> d 137 ibib ab 1-3

L37 ANSWER (1) OF 3 USPATFULL on STN

ACCESSION NUMBER: 2004:59861 USPATFULL

TITLE: Particles for diagnostic and therapeutic use

INVENTOR(S): Singh, Sharat, San Jose, CA, United States
Pease, John S., Los Altos, CA, United States
Sadakian, Jacqueline, San Jose, CA, United States
Wagner, Daniel B., Sunnyvale, CA, United States
Ullman, Edwin F., Atherton, CA, United StatesPATENT ASSIGNEE(S): Dade Behring Marburg GmbH, Marburg, GERMANY, FEDERAL
REPUBLIC OF (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6703248	B1	20040309
APPLICATION INFO.:	US 1999-465065		19991215 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Chin, Christopher L.		
ASSISTANT EXAMINER:	Do, Penbee T.		
LEGAL REPRESENTATIVE:	Leitereg, Theodore J.		
NUMBER OF CLAIMS:	13		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	12 Drawing Figure(s); 6 Drawing Page(s)		
LINE COUNT:	2356		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods, compositions and kits are disclosed. The compositions are light emitting and comprise a polymeric matrix having dissolved therein a photoactive compound. The composition has the characteristic that, after activation of the photoactive compound, the rate of decrease in the intensity of light emission at any time during a 20-fold decrease in the intensity is proportional to the intensity of the light emission. In one embodiment the polymeric matrix is comprised of particles of about 20 nm to about 100 μ m in diameter to which is bound a specific binding pair member. The particles generally comprise a polymeric matrix having dissolved therein about 1 to about 20% by weight of a dopant. The compositions may be used in methods for determining an analyte. A combination is provided comprising (1) a medium suspected of containing the analyte, (2) and the aforementioned composition. The photoactive substance is activated and the effect of the activating on the optical properties of the combination is detected. The presence and amount of the effect is related to the presence and amount of the analyte in the medium. Also disclosed are kits for use in an assay.

L37 ANSWER (2) OF 3 USPATFULL on STN

ACCESSION NUMBER: 2003:214603 USPATFULL

TITLE: Macromolecular conjugates and processes for preparing the same

INVENTOR(S): Russell, John C., Pleasant Prairie, WI, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003149246	A1	20030807
APPLICATION INFO.:	US 2002-62131	A1	20020201 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	STEVEN F. WEINSTOCK, ABBOTT LABORATORIES, 100 ABBOTT PARK ROAD, DEPT. 377/AP6A, ABBOTT PARK, IL, 60064-6008		
NUMBER OF CLAIMS:	29		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	1 Drawing Page(s)		
LINE COUNT:	1677		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Making a suspended or soluble macromolecular conjugate comprising binding a first macromolecule to a solid via a stable, disruptable bond, stably linking additional macromolecules, and releasing the macromolecular conjugate, as well as macromolecular conjugates prepared by the method.

L37 ANSWER 3 OF 3 USPATFULL on STN

ACCESSION NUMBER: 90:93259 USPATFULL
TITLE: Method to derivatize dextran
INVENTOR(S): Rowley, Gerald L., San Jose, CA, United States
Hillis, Larry R., Milpitas, CA, United States
PATENT ASSIGNEE(S): Sclavo, Inc., Sunnyvale, CA, United States (U.S. corporation).

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4975532		19901204
APPLICATION INFO.:	US 1987-137986		19871224 (7)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1986-935952, filed on 28 Nov 1986		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Griffin, Ronald W.		
ASSISTANT EXAMINER:	Carson, Nancy S.		
LEGAL REPRESENTATIVE:	Irell & Manella		
NUMBER OF CLAIMS:	2		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	7 Drawing Figure(s); 5 Drawing Page(s)		
LINE COUNT:	1203		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method to convert the hydroxyl groups of solubilized dextran to the tresylate forms which can be displaced by a nucleophile is disclosed. The method of the invention requires the reaction of dextran with the tresylating reagent in the presence of dry DMSO. The resulting tresylate can be converted to labeled dextrans which have direct linkages of a nucleophilic label to the carbons of the dextran backbone.

=> d que

L38 891 SEA ALKALINE PHOSPHATAS? AND MALEIM? AND (HYDRAZID? OR
HYDRAZON?)
L39 325 SEA L38 AND (THYROID OR TSH)
L41 41 SEA L39 AND HYDROXYLAMIN?
L43 20 SEA L41 AND CHROMOPHOR?
L44 9 SEA L43 AND PERIODAT?

=> d 144 1-9 bib ab

L44 ANSWER (1) OF 9 USPATFULL on STN
AN 2004:150947 USPATFULL
TI Interferon beta: remodeling and glycoconjugation of interferon beta
IN DeFrees, Shawn, North Wales, PA, UNITED STATES
Zopf, David, Wayne, PA, UNITED STATES
Bayer, Robert, San Diego, CA, UNITED STATES
Bowe, Caryn, Doylestown, PA, UNITED STATES
Hakes, David, Willow Grove, PA, UNITED STATES
Chen, Xi, Lansdale, PA, UNITED STATES
PA Neose Technologies, Inc. (U.S. corporation)
PI US 2004115168 A1 20040617
AI US 2003-410930 A1 20030409 (10)
RLI Continuation-in-part of Ser. No. US 2003-360779, filed on 19 Feb 2003,
PENDING Continuation-in-part of Ser. No. US 2003-360770, filed on 6 Jan
2003, PENDING Continuation-in-part of Ser. No. US 2002-287994, filed on
5 Nov 2002, PENDING Continuation of Ser. No. WO 2002-US32263, filed on 9
Oct 2002, PENDING
PRAI US 2002-407527P 20020828 (60)
US 2002-404249P 20020816 (60)
US 2002-396594P 20020717 (60)
US 2002-391777P 20020625 (60)
US 2002-387292P 20020607 (60)
US 2001-334301P 20011128 (60)
US 2001-334233P 20011128 (60)
US 2001-344692P 20011019 (60)
US 2001-328523P 20011010 (60)
DT Utility
FS APPLICATION
LREP MORGAN, LEWIS & BOCKIUS LLP, 1701 MARKET STREET, PHILADELPHIA, PA,
19103-2921
CLMN Number of Claims: 119
ECL Exemplary Claim: 1
DRWN 497 Drawing Page(s)
LN.CNT 19412
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention includes methods and compositions for remodeling a peptide
molecule, including the addition or deletion of one or more glycosyl
groups to a peptide, and/or the addition of a modifying group to a
peptide.

L44 ANSWER 2 OF 9 USPATFULL on STN
AN 2004:107626 USPATFULL
TI Interferon alpha: remodeling and glycoconjugation of interferon alpha
IN DeFrees, Shawn, North Wales, PA, UNITED STATES
Zopf, David, Wayne, PA, UNITED STATES

Bayer, Robert, San Diego, CA, UNITED STATES
Bowe, Caryn, Doylestown, PA, UNITED STATES
Hakes, David, Willow Grove, PA, UNITED STATES
Chen, Xi, Lansdale, PA, UNITED STATES
PA Neose Technologies, Inc. (U.S. corporation)
PI US 2004082026 A1 20040429
AI US 2003-411049 A1 20030409 (10)
RLI Continuation-in-part of Ser. No. US 2003-360779, filed on 19 Feb 2003,
PENDING Continuation-in-part of Ser. No. US 2003-360770, filed on 6 Jan
2003, PENDING Continuation-in-part of Ser. No. US 2002-287994, filed on
5 Nov 2002, PENDING Continuation of Ser. No. WO 2002-US32263, filed on 9
Oct 2002, PENDING
PRAI US 2002-407527P 20020828 (60)
US 2002-404249P 20020816 (60)
US 2002-396594P 20020717 (60)
US 2002-391777P 20020625 (60)
US 2002-387292P 20020607 (60)
US 2001-334301P 20011128 (60)
US 2001-334233P 20011128 (60)
US 2001-344692P 20011019 (60)
US 2001-328523P 20011010 (60)
DT Utility
FS APPLICATION
LREP MORGAN, LEWIS & BOCKIUS LLP, 1701 MARKET STREET, PHILADELPHIA, PA,
19103-2921
CLMN Number of Claims: 126
ECL Exemplary Claim: 1
DRWN 497 Drawing Page(s)
LN.CNT 19445
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention includes a multitude of methods and compositions for
remodeling a peptide molecule, including the addition or deletion of one
or more glycosyl groups to a peptide, and/or the addition of a modifying
group to a peptide.
L44 ANSWER (3) OF 9 USPATFULL on STN
AN 2004-101966 USPATFULL
TI Granulocyte colony stimulating factor: remodeling and glycoconjugation
of G-CSF
IN DeFrees, Shawn, North Wales, PA, UNITED STATES
Zopf, David, Wayne, PA, UNITED STATES
Bayer, Robert, San Diego, CA, UNITED STATES
Bowe, Caryn, Doylestown, PA, UNITED STATES
Hakes, David, Willow Grove, PA, UNITED STATES
Chen, Xi, Lansdale, PA, UNITED STATES
PA Neose Technologies, Inc. (U.S. corporation)
PI US 2004077836 A1 20040422
AI US 2003-410962 A1 20030409 (10)
RLI Continuation-in-part of Ser. No. US 2003-360779, filed on 19 Feb 2003,
PENDING Continuation-in-part of Ser. No. US 2003-360770, filed on 6 Jan
2003, PENDING Continuation-in-part of Ser. No. US 2002-287994, filed on
5 Nov 2002, PENDING Continuation of Ser. No. WO 2002-US32263, filed on 9
Oct 2002, PENDING
PRAI US 2002-407527P 20020828 (60)
US 2002-404249P 20020816 (60)
US 2002-396594P 20020717 (60)
US 2002-391777P 20020625 (60)

US 2002-387292P 20020607 (60)
US 2001-334301P 20011128 (60)
US 2001-334233P 20011128 (60)
US 2001-344692P 20011019 (60)
US 2001-328523P 20011010 (60)

DT Utility
FS APPLICATION
LREP MORGAN, LEWIS & BOCKIUS LLP, 1701 MARKET STREET, PHILADELPHIA, PA,
19103-2921
CLMN Number of Claims: 111
ECL Exemplary Claim: 1
DRWN 497 Drawing Page(s)
LN.CNT 19316
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention includes methods and compositions for remodeling a peptide molecule, including the addition or deletion of one or more glycosyl groups to a peptide, and/or the addition of a modifying group to a peptide.

L44 ANSWER (4) OF 9 USPATFULL on STN
AN 2004:83455 USPATFULL
TI Protein remodeling methods and proteins/peptides produced by the methods
IN DeFrees, Shawn, North Wales, PA, UNITED STATES
Zopf, David, Wayne, PA, UNITED STATES
Bayer, Robert, San Diego, CA, UNITED STATES
Hakes, David, Willow Grove, PA, UNITED STATES
Chen, Xi, Lansdale, PA, UNITED STATES
PA Neose Technologies, Inc. (U.S. corporation)
PI US 2004063911 A1 20040401
AI US 2003-411026 A1 20030409 (10)
RLI Continuation-in-part of Ser. No. US 2003-360779, filed on 19 Feb 2003,
PENDING Continuation-in-part of Ser. No. US 2003-360770, filed on 6 Jan
2003, PENDING Continuation-in-part of Ser. No. US 2002-287994, filed on
5 Nov 2002, PENDING Continuation of Ser. No. WO 2002-US32263, filed on 9
Oct 2002, PENDING

PRAI US 2002-407527P 20020828 (60)
US 2002-404249P 20020816 (60)
US 2002-396594P 20020717 (60)
US 2002-391777P 20020625 (60)
US 2002-387292P 20020607 (60)
US 2001-334301P 20011128 (60)
US 2001-334233P 20011128 (60)
US 2001-344692P 20011019 (60)
US 2001-328523P 20011010 (60)

DT Utility
FS APPLICATION
LREP MORGAN, LEWIS & BOCKIUS LLP, 1701 MARKET STREET, PHILADELPHIA, PA,
19103-2921
CLMN Number of Claims: 39
ECL Exemplary Claim: 1
DRWN 497 Drawing Page(s)
LN.CNT 18872
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention includes methods and compositions for remodeling a peptide molecule, including the addition or deletion of one or more glycosyl groups to a peptide, and/or the addition of a modifying group to a peptide.

L44 ANSWER 5 OF 9 USPATFULL on STN

AN 2004:57444 USPATFULL

TI Alpha galactosidase a: remodeling and glycoconjugation of alpha galactosidase A

IN DeFrees, Shawn, North Wales, PA, UNITED STATES

Zopf, David, Wayne, PA, UNITED STATES

Bayer, Robert, San Diego, CA, UNITED STATES

Bowe, Caryn, Doylestown, PA, UNITED STATES

Hakes, David, Willow Grove, PA, UNITED STATES

Chen, Xi, Lansdale, PA, UNITED STATES

PA Neose Technologies, Inc. (U.S. corporation)

PI US 2004043446 A1 20040304

AI US 2003-411037 A1 20030409 (10)

RLI Continuation-in-part of Ser. No. WO 2002-US32263, filed on 9 Oct 2002, PENDING

PRAI US 2002-407527P 20020828 (60)

US 2002-404249P 20020816 (60)

US 2002-396594P 20020717 (60)

US 2002-391777P 20020625 (60)

US 2002-387292P 20020607 (60)

DT Utility

FS APPLICATION

LREP MORGAN, LEWIS & BOCKIUS LLP, 1701 MARKET STREET, PHILADELPHIA, PA, 19103-2921

CLMN Number of Claims: 122

ECL Exemplary Claim: 1

DRWN 497 Drawing Page(s)

LN.CNT 19395

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention includes methods and compositions for remodeling a peptide molecule, including the addition or deletion of one or more glycosyl groups to a peptide, and/or the addition of a modifying group to a peptide.

L44 ANSWER 6 OF 9 USPATFULL on STN

AN 2003:231611 USPATFULL

TI Compositions and methods for the transport of biologically active agents across cellular barriers

IN Houston, L. L., Del Mar, CA, UNITED STATES

Sheridan, Philip J., San Diego, CA, UNITED STATES

Hawley, Stephen B., San Diego, CA, UNITED STATES

Glynn, Jacqueline M., San Diego, CA, UNITED STATES

Chapin, Steven, San Diego, CA, UNITED STATES

PI US 2003161809 A1 20030828

AI US 2001-969748 A1 20011002 (9)

PRAI US 2000-237929P 20001002 (60)

US 2000-248478P 20001113 (60)

US 2000-248819P 20001114 (60)

US 2001-267601P 20010209 (60)

DT Utility

FS APPLICATION

LREP FOLEY & LARDNER, P.O. BOX 80278, SAN DIEGO, CA, 92138-0278

CLMN Number of Claims: 53

ECL Exemplary Claim: 1

DRWN 32 Drawing Page(s)

LN.CNT 11304

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed herein are complexes and compounds that pass through cellular barriers to deliver compounds into, through and out of cells, and methods of producing and using such complexes and compounds. The complexes and compounds of the invention comprise a biologically active portion and a targeting element directed to a ligand that confers transcellular, transcytotic or paracellular transporting properties to an agent specifically bound to the ligand, with the proviso that the targeting element is not an antibody. Also disclosed are complexes and compounds that comprise two or more targeting elements directed to a ligand that confers transcellular, transcytotic or paracellular transporting properties to an agent specifically bound to the ligand. Preferred ligands include but are not limited to the stalk of pIgR, a pIgR domain, an amino acid sequence that is conserved among pIgR's from different animals, and one of several regions of pIgR defined herein.

L44 ANSWER 7 OF 9 USPATFULL on STN

AN 2003:214603 USPATFULL

TI Macromolecular conjugates and processes for preparing the same

IN Russell, John C., Pleasant Prairie, WI, UNITED STATES

PI US 2003149246 A1 20030807

AI US 2002-62131 A1 20020201 (10)

DT Utility

FS APPLICATION

LREP STEVEN F. WEINSTOCK, ABBOTT LABORATORIES, 100 ABBOTT PARK ROAD, DEPT. 377/AP6A, ABBOTT PARK, IL, 60064-6008

CLMN Number of Claims: 29

ECL Exemplary Claim: 1

DRWN 1 Drawing Page(s)

LN.CNT 1677

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Making a suspended or soluble macromolecular conjugate comprising binding a first macromolecule to a solid via a stable, disruptable bond, stably linking additional macromolecules, and releasing the macromolecular conjugate, as well as macromolecular conjugates prepared by the method.

L44 ANSWER 8 OF 9 USPATFULL on STN

AN 2002:275837 USPATFULL

TI Controllable ion-exchange membranes

IN Hou, Zhizhong, Davis, CA, United States

Stroeve, Pieter, Davis, CA, United States

Abbott, Nicholas, Madison, WI, United States

PA The Regents of the University of California, Oakland, CA, United States (U.S. corporation)

PI US 6468657 B1 20021022

AI US 1998-206084 19981204 (9)

DT Utility

FS GRANTED

EXNAM Primary Examiner: Le, Hoa T.

LREP Townsend and Townsend and Crew LLP

CLMN Number of Claims: 71

ECL Exemplary Claim: 1

DRWN 6 Drawing Figure(s); 4 Drawing Page(s)

LN.CNT 3454

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Multilayered porous materials are formed by coating a porous substrate

this app'n

with a metal and adsorbing an organic layer comprising a recognition moiety onto the metal film. The recognition moiety interacts with an analyte of interest allowing for its detection, purification, etc. Suitable recognition moieties can be selected from a range of species including, small molecules, polymers and biomolecules and the like. The novel porous materials of the invention can be utilized in an array of methods including, ion-exchange, ion-selective ion-exchange, assays, affinity dialysis, size exclusion dialysis and the like.

L44 ANSWER (9) OF 9 USPATFULL on STN
AN 2001:136295 USPATFULL
TI Support for high performance affinity chromatography and other uses
IN Abbott, Nicholas, Madison, WI, United States
Stroeve, Pieter, Davis, CA, United States
Dubrovsky, Timothy B., Flemington, NJ, United States
Hou, Zhizhong, Davis, CA, United States
PA The Regents of the University of California, Oakland, CA, United States
(U.S. corporation)
PI US 6277489 B1 20010821
AI US 1998-205750 19981204 (9)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Le, Hoa T.
LREP Townsend and Townsend and Crew LLP
CLMN Number of Claims: 44
ECL Exemplary Claim: 1
DRWN 2 Drawing Figure(s); 2 Drawing Page(s)
LN.CNT 3868
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Multilayered particulate materials are formed by coating a particulate substrate with a metal and adsorbing an organic layer comprising a recognition moiety onto the metal film. The recognition moiety interacts with an analyte of interest allowing for its detection, purification, etc. Suitable recognition moieties can be selected from a range of species including, small molecules, polymers and biomolecules and the like. The novel particulate materials of the invention can be utilized in an array of methods including, ion-exchange, ion-selective ion-exchange, assays, affinity dialysis, size exclusion dialysis, as supports in solid phase synthesis, combinatorial synthesis and screening of compound libraries and the like.

Inventors

Ceperley 10/062,131

June 24, 2004

L2 ANSWER (1) OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:610108 HCAPLUS
DOCUMENT NUMBER: 139:146205
ENTRY DATE: Entered STN: 08 Aug 2003
TITLE: **Macromolecular** conjugates and processes for
preparing the same
INVENTOR(S): **Russell, John C.**
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 18 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
INT. PATENT CLASSIF.:
MAIN: G01N033-542
SECONDARY: G01N033-53; C07K016-46
US PATENT CLASSIF.: 530391100; 435007900
CLASSIFICATION: 9-14 (Biochemical Methods)
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

this applic.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003149246	A1	20030807	US 2002-62131	20020201
WO 2003072017	A2	20030904	WO 2002-US40285	20021216

W: CA, JP

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT,
LU, MC, NL, PT, SE, SK, TR

PRIORITY APPLN. INFO.: US 2002-62131 A 20020201

ABSTRACT:

The invention pertains to making a suspended or soluble macromol. conjugate comprising binding a first macromol. to a solid via a stable, disruptable bond, stably linking addnl. macromols., and releasing the macromol. conjugate, as well as macromol. conjugates prepared by the method. Sepharose CL2B was oxidized with NaIO₄, activated with N-[ε-maleimidocaproic acid]hydrazide, and reacted with R-phycoerythrin activated with N-succinimidyl S-acetylthioacetate (SATA). Unreacted maleimide groups were deactivated by treatment with the sodium salt of mercaptoethanesulfonic acid. From one to five layers of alkaline phosphatase were added to the conjugate by alternately reacting SATA-activated enzyme or γ-maleimidobutyric acid N-hydroxysuccinimide ester (GMBS)-activated enzyme. SATA-activated or GMBS-activated anti-TSH antibody was reacted last with the conjugates. Unreacted groups were capped and the conjugates were released from the resin using hydroxylamine. The conjugates were used in TSH ELISA assays.

SUPPL. TERM: macromol conjugate prepn solid phase; TSH ELISA reagent
antibody alk phosphatase phycoerythrin conjugate; agarose
phycoerythrin alk phosphatase antibody conjugate prepn
INDEX TERM: Phycoerythrins
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(B-phycoerythrins, conjugates; macromol. conjugates and
processes for preparing them using solid surfaces)
INDEX TERM: Antibodies and Immunoglobulins
ROLE: ARG (Analytical reagent use); SPN (Synthetic
preparation); ANST (Analytical study); PREP (Preparation);
USES (Uses)
(IgG, conjugates, with R-phycoerythrin and alkaline

phosphatase, to TSH; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Phycoerythrins
ROLE: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(R-phycoerythrins, conjugates; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Reagents
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(activating or deactivating or cleaving; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Nucleic acids
Peptides, reactions
Polyoxyalkylenes, reactions
Polysaccharides, reactions
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(capping compound; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Crosslinking agents
(bifunctional; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Zwitterions
(capping compds.; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Polymers, reactions
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(capping compds.; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Immunoassay
(chemiluminescence enzyme, preparation of reagent for; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Chromophores
Fluorescent substances
(conjugate containing; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Antibodies and Immunoglobulins
ROLE: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(conjugates; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Allophycocyanins
Macromolecular compounds
Proteins
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(conjugates; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Immunoassay
(enzyme-linked immunosorbent assay, for TSH; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Hydrazides
ROLE: FMU (Formation, unclassified); RCT (Reactant); FORM (Formation, nonpreparative); RACT (Reactant or reagent)

(formation on macromol. after release from solid surface, conversion of; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Immobilization, molecular or cellular
(macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Macromolecular compounds
Proteins
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Proteins
ROLE: PRP (Properties); RCT (Reactant); RACT (Reactant or reagent)
(mercapto-containing; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Hydrazones
ROLE: PRP (Properties)
(sulfhydryl group-containing proteins reaction with maleimide groups bound to solid surface via linkages of; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: 9002-71-5, Thyroid-stimulating hormone
ROLE: ANT (Analyte); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study)
(R-phycoerythrin and alkaline phosphatase conjugates with antibodies to; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: 65099-79-8, Sepharose CL2B
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(activation of; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: 6539-14-6, 2-Iminothiolane 55750-61-3 64987-85-5
76931-93-6, N-Succinimidyl S-Acetylthioacetate 81186-33-6
112241-19-7 115616-51-8 158018-81-6 359436-60-5
570368-46-6 570368-47-7 570368-50-2
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(as bifunctional linker for linking macromols.; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: 80307-12-6, γ -Maleimidobutyric acid
N-hydroxysuccinimide ester
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(as bifunctional linker; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: 9004-54-0, Dextran, reactions 25322-68-3, Polyethylene glycol
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(as capping compound; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: 9003-05-8, Polyacrylamide 9003-53-6, Polystyrene
9012-36-6, Agarose
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(as solid surface; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: 7803-49-8, Hydroxylamine, reactions
ROLE: RCT (Reactant); RACT (Reactant or reagent)

(conjugate release from agarose support using; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: 19767-45-4
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(for deactivating residual unreacted maleimide groups; macromol. conjugates and processes for preparing them using solid surfaces)

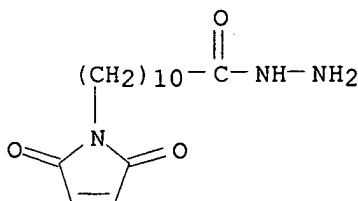
INDEX TERM: 128-53-0, N-Ethylmaleimide
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(for deactivating residual unreacted sulphhydryl groups; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: 7790-28-5, Sodium periodate
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(in preparation of reactive agarose support; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: 19001-78-9DP, conjugates with R-phycoerythrin and anti-TSH antibodies
ROLE: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: 3483-12-3, Dithiothreitol 22559-71-3D, Acridinium, Ester derivs.
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(macromol. conjugates and processes for preparing them using solid surfaces)

L3 ANSWER 1 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 570368-50-2 REGISTRY
CN 1H-Pyrrole-1-undecanoic acid, 2,5-dihydro-2,5-dioxo-, hydrazide,
monopotassium salt (9CI) (CA INDEX NAME)
MF C15 H25 N3 O3 . K
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: RACT (Reactant or reagent)
CRN (359436-62-7)

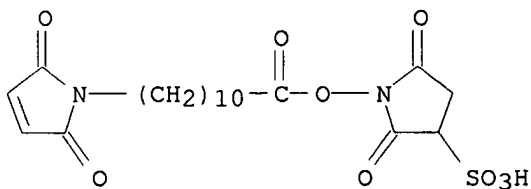


Rct

● K

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 2 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 570368-47-7 REGISTRY
CN 3-Pyrrolidinesulfonic acid, 1-[[11-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)-1-oxoundecyl]oxy]-2,5-dioxo-, potassium salt (9CI) (CA INDEX NAME)
MF C19 H26 N2 O9 S . K
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: RACT (Reactant or reagent)
CRN (220935-13-7)



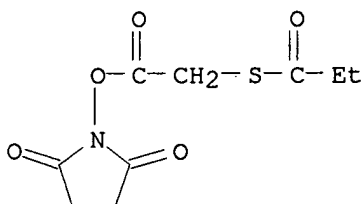
Rct

● K

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER (3) OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 570368-48-6 REGISTRY
CN Propanethioic acid, S-[2-[(2,5-dioxo-1-pyrrolidinyloxy]-2-oxoethyl] ester
(9CI) (CA INDEX NAME)
MF C9 H11 N O5 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA Cplus document type: Patent
RL.P Roles from patents: RACT (Reactant or reagent)

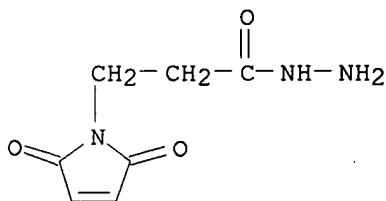


RCT

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER (4) OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 359436-60-5 REGISTRY
CN 1H-Pyrrole-1-propanoic acid, 2,5-dihydro-2,5-dioxo-, hydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C7 H9 N3 O3
CI COM
SR CAS Client Services
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA Cplus document type: Patent
RL.P Roles from patents: RACT (Reactant or reagent)



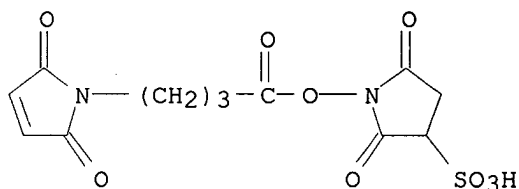
RCT

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER (5) OF 27 REGISTRY COPYRIGHT 2004 ACS on STN

RN 158018-81-6 REGISTRY
CN 3-Pyrrolidinesulfonic acid, 1-[4-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)-1-oxobutoxy]-2,5-dioxo- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C12 H12 N2 O9 S
CI COM
SR CA
LC STN Files: CA, CAPLUS, CHEMCATS, CSCHEM, TOXCENTER, USPAT2, USPATFULL
DT.CA Caplus document type: Journal; Patent
RL.P Roles from patents: BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

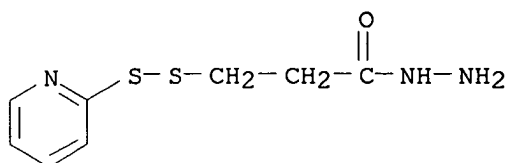


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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

15 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
15 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER (16) OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 115616-51-8 REGISTRY
CN Propanoic acid, 3-(2-pyridinyldithio)-, hydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C8 H11 N3 O S2
CI COM
SR CA
LC STN Files: CA, CANCERLIT, CAPLUS, CASREACT, MEDLINE, TOXCENTER, USPAT2, USPATFULL
DT.CA Caplus document type: Journal; Patent
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)
RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)



React

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

31 REFERENCES IN FILE CA (1907 TO DATE)

5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

31 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 7 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN

RN 112241-19-7 REGISTRY

CN 2,5-Pyrrolidinedione, 1-[[4-[1-(2-pyridinyldithio)ethyl]benzoyl]oxy]-
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN SMPT

FS 3D CONCORD

DR 154644-19-6

MF C18 H16 N2 O4 S2

SR CA

LC STN Files: CA, CANCERLIT, CAPLUS, CHEMCATS, MEDLINE, PROMT, TOXCENTER,
USPATFULL

DT.CA Caplus document type: Journal; Patent

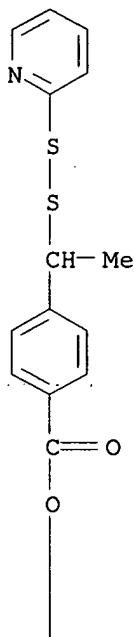
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
PROC (Process); RACT (Reactant or reagent); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: BIOL (Biological
study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

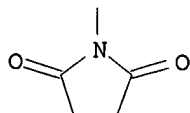
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); PREP (Preparation); PRP (Properties); RACT (Reactant or
reagent); USES (Uses)

RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological
study); PREP (Preparation); USES (Uses)

PAGE 1-A



PAGE 2-A



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

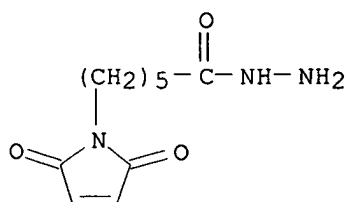
39 REFERENCES IN FILE CA (1907 TO DATE)

7 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

39 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 8 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
 RN **81186-33-6** REGISTRY
 CN 1H-Pyrrole-1-hexanoic acid, 2,5-dihydro-2,5-dioxo-, hydrazide (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C10 H15 N3 O3
 CI COM
 LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)
 DT.CA Caplus document type: Journal; Patent
 RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)
 RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation);

PROC (Process); PRP (Properties); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

16 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

16 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 9 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN

RN 80307-12-6 REGISTRY

CN 1H-Pyrrole-2,5-dione, 1-[4-[(2,5-dioxo-1-pyrrolidinyl)oxy]-4-oxobutyl]-
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN γ -Maleimidobutyric acid N-hydroxysuccinimide ester

CN 4-Maleimidobutyric acid N-hydroxysuccinimide ester

CN GMBS

CN N-(γ -Maleimidobutyryloxy)succinimide

FS 3D CONCORD

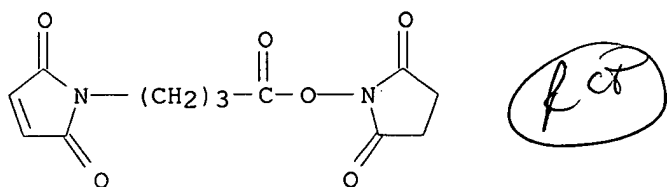
DR 105239-64-3

MF C12 H12 N2 O6

LC STN Files: BIOBUSINESS, BIOSIS, CA, CANCERLIT, CAPLUS, CASREACT,
CHEMCATS, CSCHEM, MEDLINE, MSDS-OHS, SYNTHLINE, TOXCENTER, USPAT2,
USPATFULL

DT.CA Caplus document type: Journal; Patent

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
PREP (Preparation); PRP (Properties); RACT (Reactant or reagent); USES
(Uses)RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
study); BIOL (Biological study); PREP (Preparation); PROC (Process);
RACT (Reactant or reagent); USES (Uses)RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent);
USES (Uses)RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
study); BIOL (Biological study); PREP (Preparation); PRP (Properties);
RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

153 REFERENCES IN FILE CA (1907 TO DATE)

25 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

153 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 10 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN

RN 76931-93-6 REGISTRY

CN Ethanethioic acid, S-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl] ester
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN N-Succinimidyl S-acetylthioacetate

CN SATA

CN Succinimidyl acetylthioacetate

DR 150460-52-9

MF C8 H9 N O5 S

LC STN Files: BIOBUSINESS, BIOSIS, CA, CANCERLIT, CAPLUS, CASREACT,
CHEMCATS, CSCHEM, IPA, MEDLINE, PROMT, TOXCENTER, USPAT2, USPATFULL

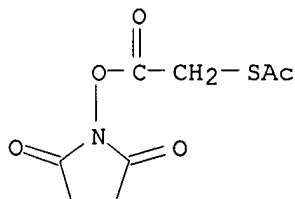
DT.CA Caplus document type: Conference; Journal; Patent

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
PREP (Preparation); PRP (Properties); RACT (Reactant or reagent); USES
(Uses)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
study); BIOL (Biological study); PREP (Preparation); RACT (Reactant or
reagent); USES (Uses)


RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); PREP (Preparation); PROC (Process); PRP (Properties); RACT
(Reactant or reagent); USES (Uses)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
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RACT (Reactant or reagent); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

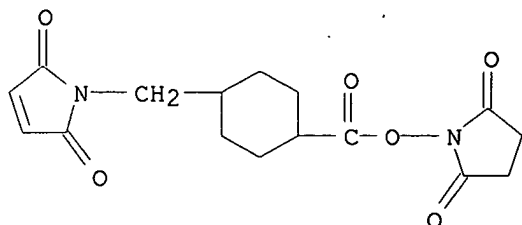
165 REFERENCES IN FILE CA (1907 TO DATE)
31 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
166 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 11 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 65099-79-8 REGISTRY
CN Sepharose CL 2B (9CI) (CA INDEX NAME) 
MF Unspecified
CI COM, MAN
LC STN Files: AGRICOLA, BIOBUSINESS, BIOSIS, CA, CAPLUS, CHEMCATS,
USPATFULL
DT.CA Caplus document type: Journal; Patent
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological
study)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP
(Properties); USES (Uses)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

33 REFERENCES IN FILE CA (1907 TO DATE)
15 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
33 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 12 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 64987-85-5 REGISTRY
CN 1H-Pyrrole-2,5-dione, 1-[[4-[(2,5-dioxo-1-pyrrolidinyl)oxy]carbonyl]cyclo
hexyl)methyl]- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 4-(N-Maleimidomethyl)cyclohexane-1-carboxylic acid N-hydroxysuccinimide
ester
CN NSC 344483
CN SMCC
CN Succinimidyl 4-(N-maleimidomethyl)cyclohexanecarboxylate
FS 3D CONCORD
MF C16 H18 N2 O6
LC STN Files: BEILSTEIN*, BIOSIS, CA, CANCERLIT, CAPLUS, CASREACT,
CHEMCATS, CSCHEM, MEDLINE, MSDS-OHS, PIRA, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
DT.CA Caplus document type: Conference; Journal; Patent
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
reagent); USES (Uses)
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study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP
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study); PREP (Preparation); PROC (Process); PRP (Properties); RACT
(Reactant or reagent); USES (Uses)
RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological
study); PREP (Preparation); PROC (Process); PRP (Properties); RACT
(Reactant or reagent); USES (Uses)



React

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

261 REFERENCES IN FILE CA (1907 TO DATE)

57 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

261 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 13 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN

RN 55750-61-3 REGISTRY

CN 1H-Pyrrole-2,5-dione, 1-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]-
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN Maleimidoacetic acid N-hydroxysuccinimidyl ester

FS 3D CONCORD

MF C10 H8 N2 O6

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, CSCHEM,
TOXCENTER, USPATFULL

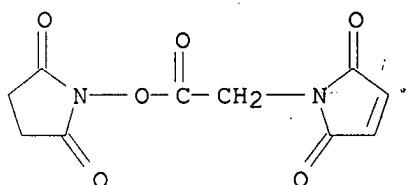
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DT.CA Caplus document type: Conference; Journal; Patent

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES
(Uses)

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study); PREP (Preparation); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); PREP (Preparation); RACT (Reactant or reagent)



React

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

26 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

26 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 14 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN

RN 25322-68-3 REGISTRY
CN Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- (9CI) (CA INDEX
NAME)

OTHER NAMES:

CN α , ω -Hydroxypoly(ethylene oxide)
CN α -Hydro- ω -hydroxypoly(oxy-1,2-ethanediyl)
CN α -Hydro- ω -hydroxypoly(oxyethylene)
CN 1,2-Ethanediol, homopolymer
CN 16600
CN 1660S
CN 400DAB8
CN Alkox
CN Alkox E 100
CN Alkox E 130
CN Alkox E 160
CN Alkox E 240
CN Alkox E 30
CN Alkox E 45
CN Alkox E 60
CN Alkox E 75
CN Alkox R 100
CN Alkox R 1000
CN Alkox R 15
CN Alkox R 150
CN Alkox R 400
CN Alkox SR
CN Antarox E 4000
CN Aquacide III
CN Aquaffin
CN Badimol
CN BDH 301
CN Bradsyn PEG
CN Breox 2000
CN Breox 20M
CN Breox 4000
CN Breox 550
CN Breox PEG 300
CN CAFO 154
CN Carbowax
CN Carbowax 100
CN Carbowax 1000
CN Carbowax 1350
CN Carbowax 14000
CN Carbowax 1450
CN Carbowax 1500
CN Carbowax 1540
CN Carbowax 20
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CN Carbowax 25000
CN Carbowax 300
CN Carbowax 3350
CN Carbowax 400
CN Carbowax 4000



ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
DISPLAY

AR 9002-90-8

DR 615575-04-7, 12676-74-3, 12770-93-3, 9081-95-2, 9085-02-3, 9085-03-4, 54510-95-1, 125223-68-9, 54847-64-2, 59763-40-5, 64441-68-5, 64640-28-4, 133573-31-6, 25104-58-9, 25609-81-8, 134919-43-0, 101677-86-5, 99264-61-6, 106186-24-7, 112895-21-3, 114323-93-2, 50809-04-6, 50809-59-1, 119219-06-6, 60894-12-4, 61840-14-0, 37361-15-2, 112384-37-9, 70926-57-7, 75285-02-8, 75285-03-9, 77986-38-0, 150872-82-5, 154394-38-4, 79964-26-4, 80341-53-3, 85399-22-0, 85945-29-5, 90597-70-9, 88077-80-9, 88747-22-2, 34802-42-1, 107502-63-6, 107529-96-4, 116549-90-7, 156948-19-5, 169046-53-1, 188364-77-4, 188924-03-0, 189154-62-9, 191743-71-2, 201163-43-1, 206357-86-0, 221638-71-7, 225502-44-3, 270910-26-4, 307928-07-0, 356055-70-4, 391229-98-4

MF (C2 H4 O)n H2 O

CI PMS, COM

PCT Polyether

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAB, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, TSCA**, WHO

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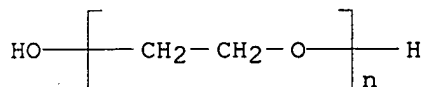
DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent; Preprint; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

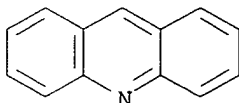


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

74884 REFERENCES IN FILE CA (1907 TO DATE)

18865 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
75093 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 15 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 22559-71-3 REGISTRY
CN Acridine, conjugate acid (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 4-Azaphenanthrene conjugate monoacid
CN Acridinium
CN Acridinium cation
CN Acridinium ion
CN Monoprotonated acridine
CN Protonated acridine
DR 111977-15-2
MF C13 H9 N . H
CI COM
LC STN Files: .BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAPLUS, CSCHEM, PROMT,
TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
DT.CA Caplus document type: Conference; Dissertation; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
PREP (Preparation); PRP (Properties); RACT (Reactant or reagent); USES
(Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
study); BIOL (Biological study); MSC (Miscellaneous); PREP
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(Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
(Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP
(Properties); RACT (Reactant or reagent); USES (Uses)
CRN (260-94-6)



RCF

● H⁺

248 REFERENCES IN FILE CA (1907 TO DATE)
93 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
249 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 16 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 19767-45-4 REGISTRY
CN Ethanesulfonic acid, 2-mercapto-, monosodium salt (8CI, 9CI) (CA INDEX
NAME)
OTHER NAMES:
CN 2-Mercapto-1-ethanesulfonic acid monosodium salt
CN 2-Mercaptoethanesulfonic acid monosodium salt

CN 2-Mercaptoethanesulfonic acid sodium salt
CN D 7093
CN Mesna
CN Mesnex
CN Mesnum
CN Mistabron
CN Mistabronco
CN Mitexan
CN Mucofluid
CN Prehepon
CN Sodium 2-mercaptoethanesulfonate
CN UCB 3983
CN Uromitexan
DR 122504-78-3
MF C2 H6 O3 S2 . Na
CI COM
LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*,
BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CBNB,
CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DIOGENES, DRUGU,
EMBASE, IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, IPA, MEDLINE, MRCK*,
MSDS-OHS, NIOSHTIC, PIRA, PROMT, PS, RTECS*, SYNTHLINE, TOXCENTER, USAN,
USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA Caplus document type: Book; Conference; Journal; Patent
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process);
PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological
study); PREP (Preparation); PRP (Properties); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC
(Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RLD.NP Roles for non-specific derivatives from non-patents: FORM (Formation,
nonpreparative); PRP (Properties)
CRN (3375-50-6)

HS-CH₂-CH₂-SO₃H

● Na

458 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
461 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 17 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 9012-36-8 REGISTRY
CN Agarose (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 3,6-Anhydro- α -L-galacto- β -D-galactan
CN Agaoligo
CN Agarose S

CN FastLane agarose
CN Indubiose A 4
CN NuSieve GTG
CN Odigose
CN Sepharose
CN Sepharose 2B
CN Sepharose 4B
CN Sepharose 6B
CN Sepharose IVB
DR 12624-29-2, 9036-61-7, 9047-20-5, 9063-31-4, 55840-45-4, 55840-46-5,
59979-54-3, 37311-23-2
MF Unspecified
CI PMS, COM, MAN
PCT Manual registration, Polyother, Polyother only
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO,
CA, CABA, CANCERLIT, CAPLUS, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHM,
CSNB, DDFU, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE,
MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, PROMT, TOXCENTER, USPAT2,
USPATFULL, VTB
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent;
Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
MSC (Miscellaneous); PREP (Preparation); PROC (Process); PRP
(Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in
record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP
(Properties); RACT (Reactant or reagent); USES (Uses)
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study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
(Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
(Reactant or reagent); USES (Uses); NORL (No role in record)
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(Miscellaneous); PREP (Preparation); PROC (Process); PRP (Properties);
RACT (Reactant or reagent); USES (Uses)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

7787 REFERENCES IN FILE CA (1907 TO DATE)

3071 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

7808 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 18 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 9004-54-0 REGISTRY
CN Dextran (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Dextrans (8CI)
OTHER NAMES:
CN α -Dextran
CN CDC-H
CN DEX 500
CN Dextran 1.5
CN Dextran 10
CN Dextran 1000
CN Dextran 110

CN Dextran 15
CN Dextran 150
CN Dextran 2000
CN Dextran 250
CN Dextran 3000
CN Dextran 40
CN Dextran 45
CN Dextran 500
CN Dextran 60
CN Dextran 70
CN Dextran 75
CN Dextran B 512
CN Dextran B1355
CN Dextran D 10
CN Dextran PL 1S
CN Dextran PT 25
CN Dextran PVD
CN Dextran RMI
CN Dextran T 10
CN Dextran T 110
CN Dextran T 150
CN Dextran T 20
CN Dextran T 2000
CN Dextran T 500
CN Dextran T 70
CN Dextranen
CN Dextraven
CN Eudextran
CN Expandex
CN Gentrane
CN Hemodex
CN Hyscon
CN Hyskon
CN Infucoll
CN Intrader
CN Intradex
CN LMD
CN LMWD
CN Longasteril 70
CN LU 122
CN LVD
CN Macrodex

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
DISPLAY

DR 12626-85-6, 9013-80-3, 9044-66-0, 11104-36-2, 11121-03-2, 37224-17-2,
86280-85-5

MF Unspecified

CI PMS, COM, MAN

PCT Manual registration, Polyother, Polyother only

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, CA, CABA,
CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX,
CHEMLIST, CIN, CSCHM, CSNB, DDFU, DETHERM*, DIOGENES, DRUGU, EMBASE,
IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, IPA, MEDLINE, MRCK*, MSDS-OHS,
NIOSTIC, PHAR, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, USAN, USPAT2,
USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**, WHO

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent; Preprint; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

14366 REFERENCES IN FILE CA (1907 TO DATE)

2430 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

14410 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER (19) OF 27 REGISTRY COPYRIGHT 2004 ACS on STN

RN 9003-53-6 REGISTRY

CN Benzene, ethenyl-, homopolymer (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 105E
CN 138F
CN 143E
CN 144C
CN 144CKG2
CN 145G
CN 147F
CN 148G
CN 148H
CN 158K
CN 158KR
CN 158L-KG2
CN 168M
CN 168N
CN 168N003 Clear
CN 168N15
CN 16ERA8
CN 1800P
CN 271T
CN 2D-MicroHex
CN 2V62F
CN 31N
CN 333AZY
CN 3A
CN 454H
CN 456M
CN 473E
CN 475K

(R CT)

CN 5026B
CN 50IS
CN 550P
CN 550P (styrene polymer)
CN 615APR
CN 666D
CN 666R
CN 666U
CN 666U26
CN 678U
CN 679R
CN 685D
CN 685D-W
CN 686E
CN 76RES7116
CN 825TV-PS
CN 9M62
CN 9M62C
CN A 180
CN A 180 (vinyl polymer)
CN A 2500
CN A 2500 (styrene polymer)

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
DISPLAY

DR 471865-10-8, 12627-11-1, 9044-64-8, 9055-91-8, 11120-46-0, 172641-48-4,
172867-64-0, 53986-84-8, 54578-24-4, 54596-41-7, 58033-91-3, 56451-72-0,
56748-62-0, 57657-06-4, 55128-06-8, 55465-00-4, 60120-16-3, 60328-46-3,
120037-99-2, 63849-49-0, 25038-60-2, 98444-30-5, 105270-05-1, 51609-83-7,
51609-87-1, 60880-98-0, 61584-89-2, 61584-90-5, 137262-45-4, 78354-47-9,
144637-93-4, 86090-91-7, 81834-12-0, 39470-87-6, 40494-15-3, 52932-49-7,
53112-49-5, 157243-21-5, 219782-52-2, 260975-79-9, 359762-95-1,
360046-70-4

MF (C8 H8)x

CI PMS, COM

PCT Polystyrene

LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ASMDATA*,
BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT,
CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHM,
CSNB, DDFU, DETHERM*, DIOGENES, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2,
ENCOMPAT, ENCOMPAT2, IFICDB, IFIPAT, IFIUDB, IMSCSEARCH, IPA,
MEDLINE, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PLASPEC*, PROMT, RTECS*,
SPECINFO, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent;
Preprint; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC
(Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);
PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role
in record)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
study); BIOL (Biological study); CMBI (Combinatorial study); FORM
(Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence);
PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

CM 1

CRN 100-42-5

CMF C8 H8

H₂C=CH-Ph

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

99387 REFERENCES IN FILE CA (1907 TO DATE)

8954 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

99551 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER (20) OF 27 REGISTRY COPYRIGHT 2004 ACS on STN

RN 9003-05-8 REGISTRY

CN 2-Propenamide, homopolymer (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Acrylamide, polymers (8CI)

OTHER NAMES:

CN 2-Propenamide hydrochloride homopolymer

CN 2300S

CN 2J

CN 3330s

CN 38F

CN 920MPM

CN Accotrol S 622

CN Acrylamide homopolymer

CN Acrylamide polymer

CN Alcoflood 1175

CN American Cyanamid KPAM

CN American Cyanamid P 250

CN AMF

CN Aminogen PA

CN AP 273

CN Aron F 40

CN ASP 6

CN BanDrift

CN Boze Floc N 46BT

CN Calgon 470

CN Calgon 800

CN CM 303

CN CM 311

CN Cogum 20P

RCF

CN Cogum 25H
 CN Colsize WLV
 CN Cyanamer A 15L
 CN Cyanamer N 10
 CN Cyanamer N 100
 CN Cyanamer N 100L
 CN Cyanamer N 300
 CN Cyanamer N 300LMW
 CN Cyanamer P 250
 CN Cyanamer P 35
 CN Cytame 5
 CN Diaclear MA 3000H
 CN Diaclear MN 3000
 CN Diaclear MN 3000H
 CN Discol 4600
 CN DK Dry Capsule ESP
 CN DKS-ORP-F 40NT
 CN Dow 164
 CN Dow ET 597
 CN Dow J 100
 CN DP 1916
 CN DP 9-6193
 CN DS 415
 CN E 936
 CN ET 597

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for

DISPLAY

DR 12624-24-7, 9082-06-8, 122177-63-3, 57679-11-5, 129774-19-2, 133522-77-7,
 25038-45-3, 104981-89-7, 114265-35-9, 51312-40-4, 68247-81-4, 72270-86-1,
 79079-15-5, 143180-09-0, 143180-13-6, 143180-22-7, 143749-07-9,
 27754-57-0, 33338-03-3, 39355-07-2, 39387-77-4, 200138-95-0, 443682-77-7

MF (C3 H5 N O)x

CI PMS, COM

PCT Polyacrylic, Polyamide, Polyamide formed

LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA,
 CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHM,
 CSNB, DDFU, DETHERM*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT,
 ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, IPA, MEDLINE,
 MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, TOXCENTER, TULSA,
 USPAT2, USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent; Preprint; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
 FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
 (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
 (Reactant or reagent); USES (Uses); NORL (No role in record)

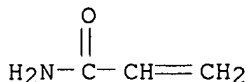
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
 study); BIOL (Biological study); MSC (Miscellaneous); OCCU (Occurrence);
 PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
 reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
 study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
 (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
 (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

CM 1

CRN 79-06-1
CMF C3 H5 N O



21657 REFERENCES IN FILE CA (1907 TO DATE)
3613 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
21692 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER (21) OF 27 REGISTRY COPYRIGHT 2004 ACS on STN

RN 9002-71-5 REGISTRY

CN Thyrotropin (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Dermathycin

CN Pretiron

CN Thyreotrophic hormone

CN Thyroid-stimulating factor

CN Thyroid-stimulating hormone

CN Thyrotrophin

CN Thyrotropic hormone

CN Thytropar

CN TSH

CN TSH (hormone)

CN TTH

DR 9015-90-1, 11006-84-1

MF Unspecified

CI PMS, COM, MAN

PCT Manual registration

LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHM, CSNB, DDFU, DIOGENES, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, NIOSHTIC, PHAR, PROMT, RTECS*, TOXCENTER, USAN, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: EINECS**, WHO

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU

ANALYTE
TSH

(Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

14187 REFERENCES IN FILE CA (1907 TO DATE)

128 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

14202 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER (22) OF 27 REGISTRY COPYRIGHT 2004 ACS on STN

RN 9001-78-9 REGISTRY

CN Phosphatase, alkaline (9CI) (CA INDEX NAME)

OTHER NAMES:

CN AIP

CN Alkaline phenyl phosphatase

CN alkaline phosphatase

CN Alkaline phosphatase

CN Alkaline phosphohydrolase

CN Alkaline phosphomonoesterase

CN E.C. 3.1.3.1

CN Ostase

MF Unspecified

CI MAN

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHM, CSNB, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, PROMT, TOXCENTER, ULIDAT, USPAT2, USPATFULL

Other Sources: EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

33574 REFERENCES IN FILE CA (1907 TO DATE)

1100 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

33627 REFERENCES IN FILE CAPLUS (1907 TO DATE)

Prep

L3 ANSWER 23 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 7803-49-8 REGISTRY
CN Hydroxylamine (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN HDA
CN Hydroxyamine
CN Telclean 1200A
FS 3D CONCORD
MF H3 N O
CI COM

Rct

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, PS, RTECS*, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VETU, VTB

(*File contains numerically searchable property data)

Other Sources: EINECS**, NDSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

H₂N-OH

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

8868 REFERENCES IN FILE CA (1907 TO DATE)

715 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

8876 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 24 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 7790-28-5 REGISTRY

CN Periodic acid (HIO₄), sodium salt (8CI, 9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Sodium periodate (NaIO₄) (6CI)

Rct

OTHER NAMES:

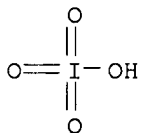
CN Monosodium metaperiodate
 CN Periodic acid sodium salt
 CN Sodium metaperiodate
 CN Sodium metaperiodate (NaIO₄)
 CN Sodium periodate
 MF H I O₄ . Na
 CI COM
 LC STN Files: AGRICOLA, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Conference; Dissertation; Journal; Patent; Report
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
 RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
 RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent)
 CRN (13444-71-8)



● Na

1703 REFERENCES IN FILE CA (1907 TO DATE)

15 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1710 REFERENCES IN FILE CAPLUS (1907 TO DATE)

44 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

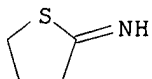
L3 ANSWER 25 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 6539-14-6 REGISTRY
 CN 2(3H)-Thiophenimine, dihydro- (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-Iminotetrahydrothiophene
 CN 2-Iminothiolane
 CN Butanimidic acid, 4-mercapto-, γ-(thio lactone)
 CN Traut's reagent
 FS 3D CONCORD

Ret

MF C4 H7 N S
 CI COM
 LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, CHEMCATS, EMBASE, IPA, PROMT, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 DT.CA Caplus document type: Conference; Dissertation; Journal; Patent
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
 RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)
 RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

257 REFERENCES IN FILE CA (1907 TO DATE)

51 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

259 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 26 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN

RN 3483-12-3 REGISTRY

CN 2,3-Butanediol, 1,4-dimercapto-, (2R,3R)-rel- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,3-Butanediol, 1,4-dimercapto-, (R*,R*)-

CN Threitol, 1,4-dithio- (7CI, 8CI)

OTHER NAMES:

CN (±)-1,4-Dimercapto-2,3-butanediol

CN (±)-Dithiothreitol

CN 1,4-Dithio-DL-threitol

CN 1,4-Dithiothreitol

CN Cleland's reagent

CN Dithiothreitol

CN DL-1,4-Dimercapto-2,3-dihydroxybutane

CN DL-1,4-Dithiothreitol

CN DL-Dithiothreitol

CN DTT

CN DTT (threitol derivative)

CN rac-Dithiothreitol

CN Reagents, Cleland's

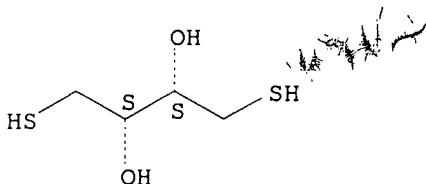
CN Sputolysin

CN threo-1,4-Dimercapto-2,3-butanediol

Ret

CN threo-2,3-Dihydroxy-1,4-butanedithiol
 CN WR 34678
 FS STEREOSEARCH
 DR 27565-41-9, 28823-08-7, 214119-27-4
 MF C4 H10 O2 S2
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS,
 BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,
 CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DRUGU,
 EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS,
 NIOSHTIC, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)
 DT.CA Caplus document type: Conference; Dissertation; Journal; Patent;
 Preprint; Report
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
 MSC (Miscellaneous); PREP (Preparation); PROC (Process); PRP
 (Properties); RACT (Reactant or reagent); USES (Uses)
 RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
 study); BIOL (Biological study); PREP (Preparation); PRP (Properties);
 RACT (Reactant or reagent); USES (Uses)
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
 study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
 (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
 (Reactant or reagent); USES (Uses); NORL (No role in record)
 RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
 study); BIOL (Biological study); FORM (Formation, nonpreparative); PREP
 (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
 reagent); USES (Uses)

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4664 REFERENCES IN FILE CA (1907 TO DATE)
 75 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 4679 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 27 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 128-53-0 REGISTRY
 CN 1H-Pyrrole-2,5-dione, 1-ethyl- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Maleimide, N-ethyl- (8CI)
 OTHER NAMES:
 CN 1-Ethyl-1H-pyrrole-2,5-dione
 CN Ethylmaleimide

Ret

CN Maleic acid N-ethylimide

CN N-Ethylmaleimide

CN NEM

CN NSC 7638

FS 3D CONCORD

MF C6 H7 N O2

CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHM, DDFU, DETHERM*, DRUGU, EMBASE, GMEIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PROMT, RTECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

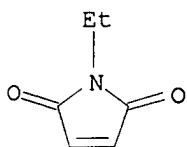
DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3111 REFERENCES IN FILE CA (1907 TO DATE)

37 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

3113 REFERENCES IN FILE CAPLUS (1907 TO DATE)

88 REFERENCES IN FILE CAOLD (PRIOR TO 1967)